

# Tech Talk

# API Strategy Implementation

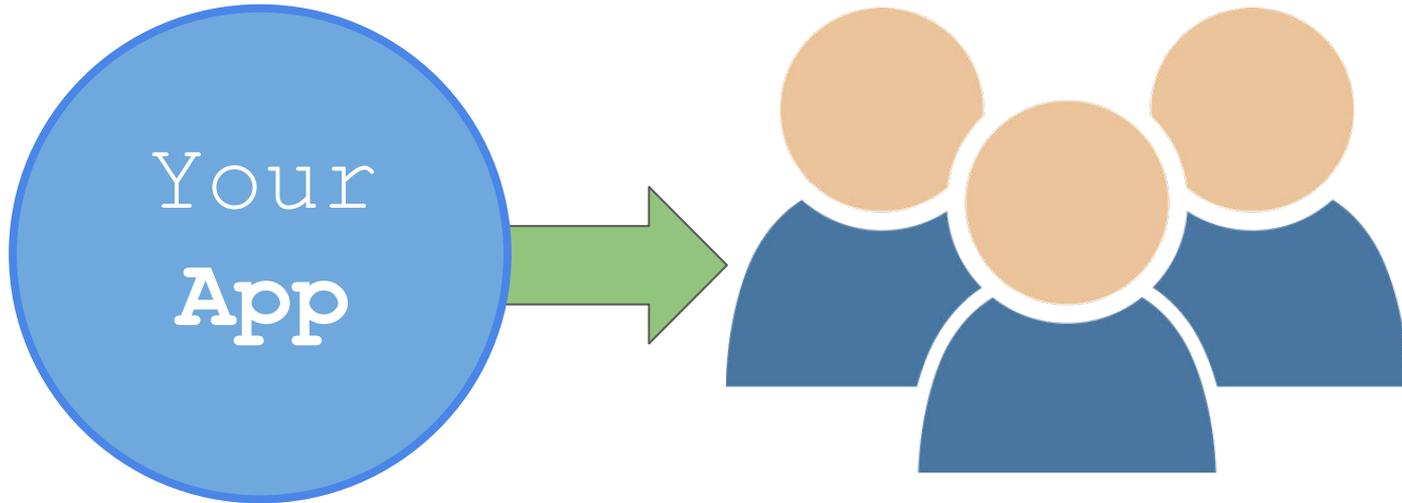
Ryan Day, Office of the CTO

Spring 2019

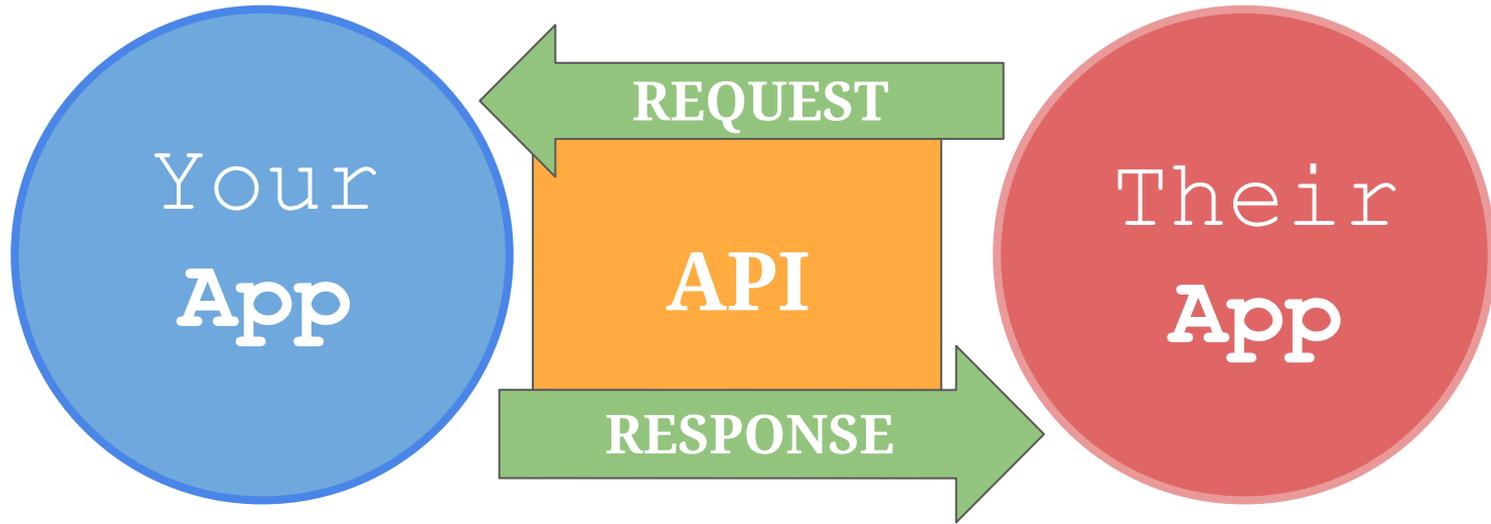
# Agenda

- Introduction to APIs
- GSA API Strategy
- 3 Pillars of API Strategy Implementation
  - Pillar #1 - External Customer Experience
  - Pillar #2 - Internal Engagement
  - Pillar #3 - Technical Architecture
- Getting Involved

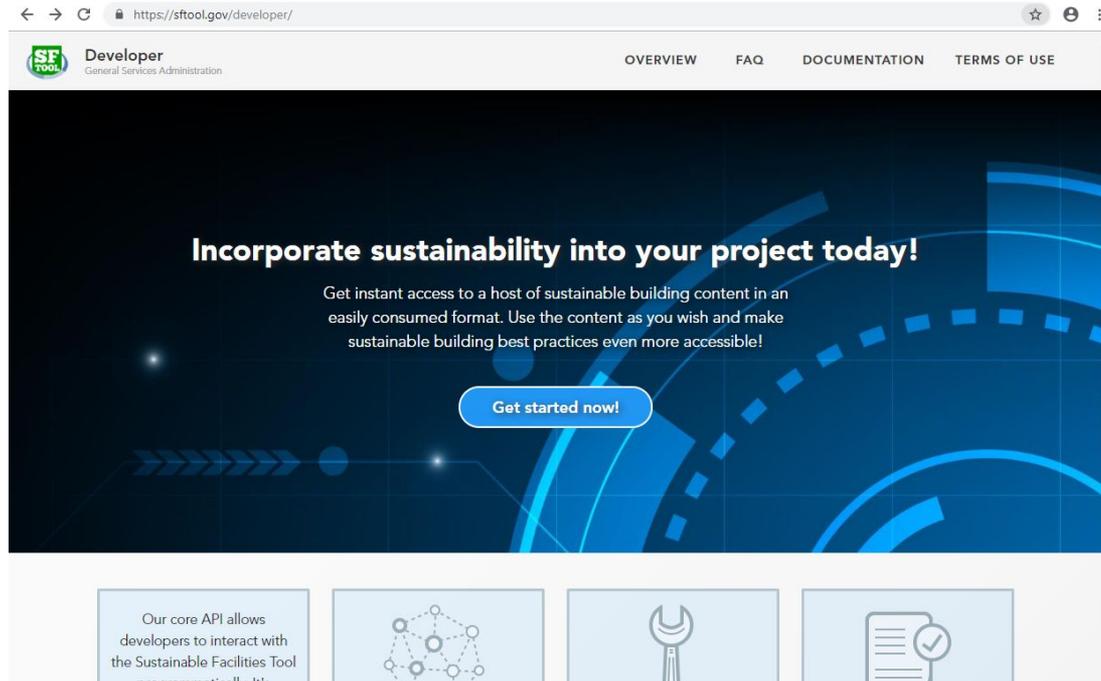
## Users Directly Accessing Your App



# API = Application Programming Interface



# Example of an API



Website: <https://sftool.gov/developer/>

# GSA Tech Guides

[All guides](#) » API guides

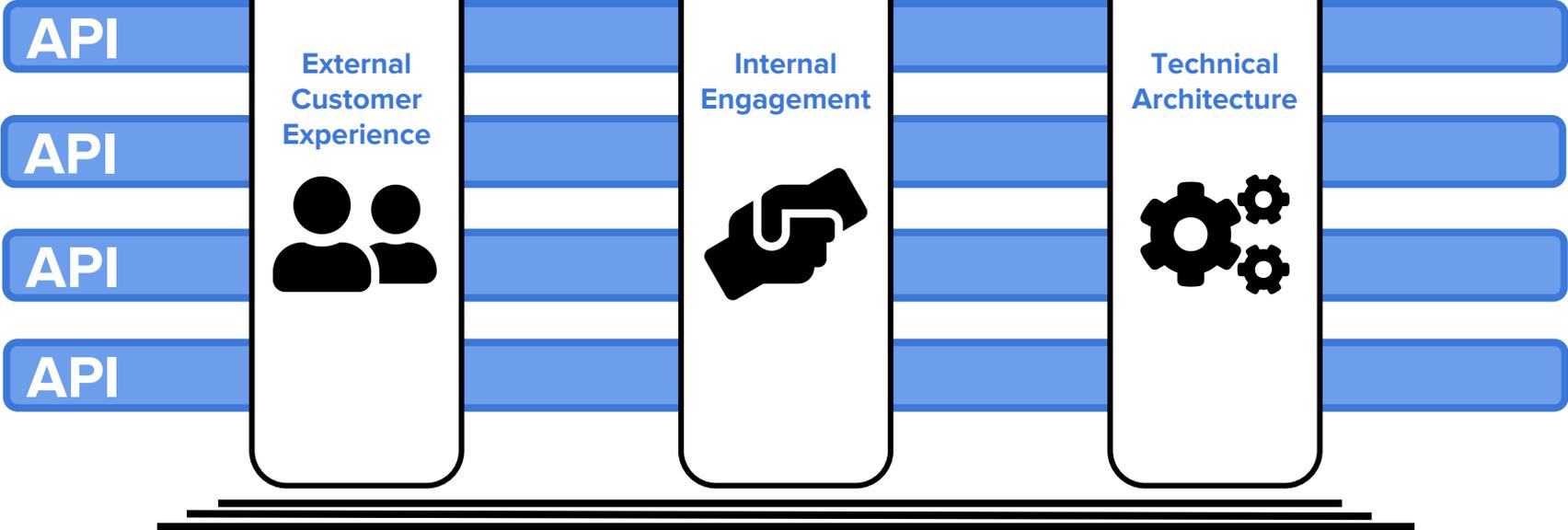
## API Strategy

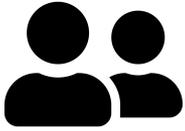
[The GSA API Strategy](#) describes GSA's direction for agency-wide API design, development, architecture, operations and support, and security. We want to use public APIs to expose public data for transparency, data consumer engagement, and application development. We also want to use non-public APIs to promote system integration and migration of legacy systems. In all these efforts, we seek to adopt industry best practices for API design, development, and management.

**Website:** [https://tech.gsa.gov/guides/API\\_strategy/](https://tech.gsa.gov/guides/API_strategy/)

# GSA API Strategy

## 3 Pillars of Implementation



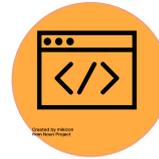


## Pillar #1: External Customer Experience

- Providing APIs and API documentation that fulfill the needs of customers.
- Designing from a user-focused perspective, rather than technology-focused one.



GSA Developer  
Portal -  
[open.gsa.gov/api](https://open.gsa.gov/api)



Self-service hosting  
for public API doco



Civic Digital Fellowship -  
Human Centered Design  
(HCD) Review of API user  
experience



## Pillar #2: Internal Engagement

- Building a community of API owners and practitioners inside GSA to develop APIs in a consistent fashion.



API Guild



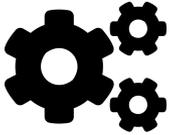
API Standards



API Office Hours



Non-Public  
APIs (inventory,  
directory)



## Pillar #3: Technical Architecture

- Designing technology solutions for developing and hosting high quality APIs.
- Creating technical guides to assist teams in implementing APIs that follow the GSA API Standards.



API related  
tools  
research



API Playbook



API Security  
procedural guide  
(GSA IT Security)

# Getting involved

How **You** Can Participate in API Strategy

- Join the API Guild
- Use API Standards when developing APIs
- Host your public API documentation on [open.gsa.gov/api](https://open.gsa.gov/api)
- Share information with Ryan about non-public APIs for inventory

## Additional Resources

### GSA API Strategy

- [https://tech.gsa.gov/guides/API\\_strategy/](https://tech.gsa.gov/guides/API_strategy/)

### GSA API Standards

- [https://tech.gsa.gov/guides/API\\_standards/](https://tech.gsa.gov/guides/API_standards/)

### GSA Developer Portal

- <https://open.gsa.gov/api/>

### Self service hosting for public API docs

- <https://github.com/GSA/open-gsa-redesign/blob/master/APIDOCS.md>

### Human Centered Design Field Guide

- <https://www.gsa.gov/cdnstatic/HCD-Discovery-Guide-Interagency-v12-1.pdf>

## Articles and presentations

### Introduction To APIs (2017 Tech Talk)

- <https://tech.gsa.gov/assets/downloads/techtalks/apis-tech-talk.pdf>

### Around The Corner Blog - API Standards

- <https://gsablogs.gsa.gov/innovation/2019/02/26/gsa-rolls-out-agency-api-standards/>

### DigitalGov - Q&A

- <https://digital.gov/2019/03/27/qa-with-ryan-day-about-gsas-api-strategy/>

# Thanks for listening

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# Credits

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